



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

JON S. CORZINE
Governor

LISA P. JACKSON
Commissioner

Bureau of Case Management
401 East State Street
P.O. Box 028
Trenton, NJ 08625-0028
Phone #: 609-633-1455
Fax #: 609-633-1439

JUL 31 2008

Stephen Tappert, CPG
TRC Environmental Corporation
57 East Willow St
Milburn, NJ 07041

Re: Leshay Farms Pumping Well Data/Ground Water (Operable Unit 1) Design
Shieldalloy Metallurgical Corporation
35 South West Boulevard, Newfield Borough, New Jersey 08344
SRP PI# 000297

Dear Mr. Tappert:

Pursuant to the discussion at our meeting on May 8, 2008, enclosed please find the following documents containing data regarding the pumping rates, frequencies and duration of the water withdrawal from the Leshay Farms irrigation wells:

- Reported Values Summary Data for 2003-2007 for Leshay Farms Well Nos. 1, 3 & 4
- Well Records for Well Nos. 1, 4, 5, 6 & 7
- April 2, 2008 Letter from NJDEP to Leshay Farms (w/o attachments)
- April 7, 2008 Letter from Leshay Farms to NJDEP (w/o attachments)
- April 17 Letter from NJDEP to Leshay Farms (w/o attachments)
- June 25, 2008 facsimile from Leshay Farms (with attachment)

As discussed at the meeting and in subsequent conversations, TRC will incorporate this data into the ground water model to simulate pumping scenarios that are more representative of the actual operation of the irrigation wells than the scenarios used in the previous modeling effort. Please note that data from all pumping wells in the model domain shall be included in the model to determine if any affect the fate and transport of the existing ground water contaminant plumes. The modeling effort shall address both the chromium and the volatile organic compound contamination.

The results will subsequently be used in the Draft Final Design Report for Ground Water Operable Unit 1 which is due on September 16, 2008 in accordance with the March 17, 2008 Notice of Deficiency.

479952



If you have any questions regarding this matter, please contact me at (609) 633-1494.

Sincerely,

A handwritten signature in black ink, appearing to read "Donna L. Gaffigan". The signature is fluid and cursive, with the first name "Donna" being more prominent.

Donna L. Gaffigan, Case Manager
Bureau of Case Management

Enclosures

c: George Nicholas, NJDEP/BGWPA
Trevor Anderson, USEPA
David R. Smith, SMC
Clerk, Newfield Borough
Gloucester County Health Dept

Reported Values Summary

Data for 2003 to 2007

Program Interest: GL0182 - LESHAY FARMS

Parameter: Water Diverted

Activity: UDS070001 - Unapproved Diversion Sources
 UDS060001 - Unapproved Diversion Sources
 AGC010001 - Agricultural Certification - New

Report Units: Million Gallons

Year	Source	Source ID	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
2003	AGC010001	3100058063 - WSWL250518 A	0	0	0	0	1.05	1	1.4	1.1	0	0	0	0	4.55
		3100022330 - WSWL67679 3	0	0	0	0.7	1.5	1.8	1.9	3.9	0.9	0	0	0	10.7
		5100000392 - WSWL70713 1	0	0	0	0.5	1.8	1.6	1.26	3.34	0	0	0	0	8.5
		Subtotal	0	0	0	1.2	4.35	4.4	4.56	8.34	0.9	0	0	0	23.75
2004	AGC010001	3100058063 - WSWL250518 A	0	0	0	0	0.71	0.83	1.32	0.87	0	0	0	0	3.73
		3100022330 - WSWL67679 3	0	0	0	0		3	4.2	3.5	0	0	0	0	10.7
		5100000392 - WSWL70713 1	0	0	0	0	1.5	2.6	3	3.6	1.5	1.2	0	0	13.4
		Subtotal	0	0	0	0	2.21	6.43	8.52	7.97	1.5	1.2	0	0	27.83
2005	AGC010001	3100058063 - WSWL250518 A	0	0	0	0	0	0.54	1.08	0.66	0	0	0	0	2.28
		3100022330 - WSWL67679 3	0	0	0	0	0	6	8.4	7	0	0	0	0	21.4
		5100000392 - WSWL70713 1	0	0	0	1.8	3.6	4.2	6	6.6	3.9	3.1	0	0	29.2
		Subtotal	0	0	0	1.8	3.6	10.74	15.48	14.26	3.9	3.1	0	0	52.88
2006	AGC010001	3100058063 - WSWL250518 A	0	0	0	0	0	1.8	1.62	0	0	0	0	0	3.42
		3100022330 - WSWL67679 3	0	0	0	0	0.27	0.51	0.3	0	0	0	0	0	1.08
		5100000392 - WSWL70713 1	0	0	0	1.26	0	0	0	0	0	0	0	0	1.26
		Subtotal	0	0	0	1.26	0.27	2.31	1.92	0	0	0	0	0	5.76
2007	AGC010001	3100058063 - WSWL250518 A	0	0	0	0	0	0	0.42	0.77	0	0	0	0	1.19
		3100022330 - WSWL67679 3	0	0	0	0	0	0	0.34	0.62	0	0	0	0	0.96
		5100000392 - WSWL70713 1	0	0	0	0	0	0	0.86	1.42	0	0	0	0	2.28
		Subtotal	0	0	0	0	0	0	1.62	2.81	0	0	0	0	4.43
		SUM	0	0	0	4.26	10.43	23.88	32.1	33.38	6.3	4.3	0	0	114.65

Annual Water Use Report

PROGRAM INTEREST: GL0182 - LESHAY FARMS

ACTIVITY CODE: AGC010001 - Agricultural Certification - New

MONITORING PERIOD: 01/01/2003 - 12/31/2003

Subject Item	Parameter	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Report Value in Units of:
WSWL 67679 - 3100022330, WELL 2	Water Diverted	0	0	NOT 0	USED 0	IN 0	2003 0	0	PLANTED 0	IN 0	WHEAT 0	0	0	Million Gallons 0
WSWL 70713 - 5100000392, WELL 1	Water Diverted	0	0	0	.50	1.80	1.60	1.260	3.34	0	0	0	0	Million Gallons 8.50
3104823 WELL 3	WATER DIVERTED	0	0	0	0	.80	.90	1.30	.85	0	0	0	0	3.85
3158063 WELL 4	WATER DIVERTED	0	0	0	0	1.05	1.00	1.40	1.10	0	0	0	0	4.55

Annual Water Use Report

NJDEP Preprint ID: 41836

PROGRAM INTEREST: GL0182 - LESHAY FARMS

ACTIVITY CODE: AGC010001 - Agricultural Certification - New

MONITORING PERIOD: 01/01/2005 - 12/31/2005

Subject Item	Parameter	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Report Value in Units of
3100058063, WELL 3	Water Diverted	0	0	0	0	.66	1.11	.51	0	0	0	0	0	Million Gallons
3100004823, WELL 4	Water Diverted	0	0	0	0	0	.54	1.08	.66	0	0	0	0	Million Gallons
3100006890, well 5	Backup Well - Not used in 2005													
31000633114, well 6		0	0	0	0	2.64	3.42	6.78	3.78	0	0	0	0	

Annual Water Use Report

GRAM INTEREST: GL0182 - LESHAY FARMS

MONITORING PERIOD: 01/01/2006 - 12/31/2006

ACTIVITY CODE: AGC010001 - Agricultural Certification - New

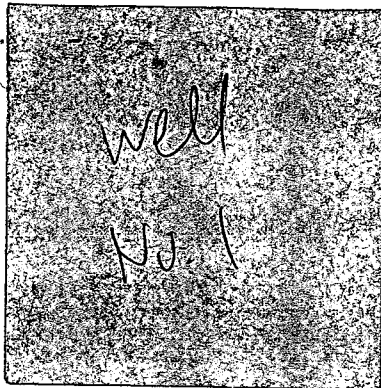
Subject Item	Parameter	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Report Value In Units of:
WSWL 67679 - 3 3100022330, WELL 3	Water Diverted	0	0	0	0	.27	.51	.3	0	0	0	0	0	Million Gallons
WSWL 70713 - 5100000392, WELL 1	Water Diverted	0	0	0	1.26	0	0	0	0	0	0	0	0	Million Gallons
Well # 3100058043 4	"	0	0	0	0	0	1.8	1.62	0	0	0	0	0	"
Well # 3100063314 5	"	0	0	0	1.3	1.6	1.8	1.02	1.30	.34	0	0	0	"
Well # 3100006890 6	"	0	0	0	0	0	0	0	0	0	0	0	0	"

Backup well
#6 not used
this season

MONITORING PERIOD: 01/01/2007 - 12/31/2007

ACTIVITY CODE: AGC010001 - Agricultural Certification - New

[illegible]



31-42-658L

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCESPermit No. 31-6890

Application No. _____

County GLoucester

WELL RECORD

red #

#6

GLO181
GLO182

1. OWNER LESHAY BROS. ADDRESS NEWFIELD NJ
Owner's Well No. _____ SURFACE ELEVATION _____ Feet
(Above mean sea level)
2. LOCATION ACROSS HOME ON CATAWBA AVE.
3. DATE COMPLETED 4-18-73 DRILLER JOE A. D'AGOSTINO
4. DIAMETER: top 10 inches Bottom 10 inches TOTAL DEPTH 100 Feet
5. CASING: Type P.V.C. Diameter 6 inches Length 70 Feet
6. SCREEN: Type P.V.C. Size of Opening 1/2" Diameter 6 inches Length 30 Feet
- Range in Depth { Top _____ Feet
Bottom _____ Feet
- Geologic Formation CONANSEY SANDS
- Tail piece: Diameter _____ inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
Water rises to _____ Feet above surface
8. RECORD OF TEST: Date 4-18-73 Yield 50 Gallons per minute
Static water level before pumping 6 Feet below surface
Pumping level 7 feet below surface after 4 hours pumping
Drawdown 1 Feet Specific Capacity 50 Gals. per min. per ft. of drawdown
How Pumped POOL POOL ENGINE How measured 5 GAL CAN
Observed effect on nearby wells NONE
9. PERMANENT PUMPING EQUIPMENT: DID NOT ~~INSTALL~~ PUMPING EQUIPMENT
Type _____ Mfrs. Name _____
Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ inches
10. USED FOR IRRIGATION AMOUNT { Average _____ Gallons Daily
Maximum _____ Gallons Daily
11. QUALITY OF WATER GOOD Sample: Yes _____ No. _____
Taste _____ Odor _____ Color _____ Temp. _____ OF
12. LOG _____ Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA D'AGOSTINO WELL DRILLING
14. DATA OBTAINED BY MARIO D'AGOSTINO Date _____

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

13
15MR ✓
Application No. 31-6890
31-42-558Mail to
STATE GEOLOGIST
P.O. BOX 1889
TRENTON, N.J. 08646

RECEIVED

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER POLICY AND SUPPLY
TRENTON, N. J.Make Checks Payable to
DIVISION OF WATER POLICY & SUPPLY

APPLICATION FOR PERMIT TO DRILL WELL

DEPT. OF ENVIRONMENTAL PROTECTION
DIV. OF WATER RESOURCES

Application must be accompanied by a legal fee of three dollars (\$3.00).

451-4927

Owner LESHAY BROS. (Print or Type) Driller D'AGOSTINO WELL DRILLING
 Address CATAWBA AVE. Address RD #6
NEWFIELD, N.J. BRIDGETON, N.J.

In compliance with R. S. 58:4A-14, application is made for a permit to drill a well in

NEWFIELD TWP GLOU.
(municipality) (county)Use of well IRRIGATION
(semi-public, domestic, industrial, public supply, test, etc.)Diameter of Well 6 inchesProposed Depth of Well 150 FeetProposed Capacity of Pump 350 G.P.M.Method of Drilling ROTARY
(cable-tool, rotary, jet, etc.)

Show Location on Back of this Sheet.

Date 1-20-73

Signature of Owner

Leshay Bros.
Samuel Leshay

1. The issuance of a permit to drill this well conveys no rights, either expressed or implied, to divert water.
2. If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Division.
3. In the event this well is abandoned, the Owner will assume full responsibility for plugging or sealing it in the manner satisfactory to the Division, in accordance with provisions of R. S. 58:4A-4.1.
4. A permit to drill this well will be valid for one year from date of approval.
5. If this well is to be used for domestic or semi-public supply it must be constructed in accordance with provisions of "Standards for the Construction of Water Supply Systems for Realty Improvements (Revised 1966)" and be approved by the local Board of Health.

Permit issued in accordance with
provisions of letter of transmittal
dated February 27, 1973.

- ☐ Samples of cuttings required
every _____
- ☐ No samples of cuttings required

This space for Approval Stamp

**WELL PERMIT
APPROVED**

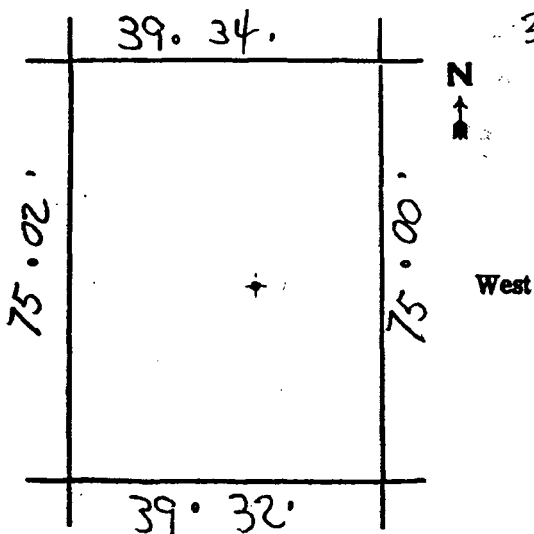
FEB 27 1973

DEPT. OF ENVIRONMENTAL PROT.
Div. of Water Resources
CHARLES M. PINE
DIRECTOR

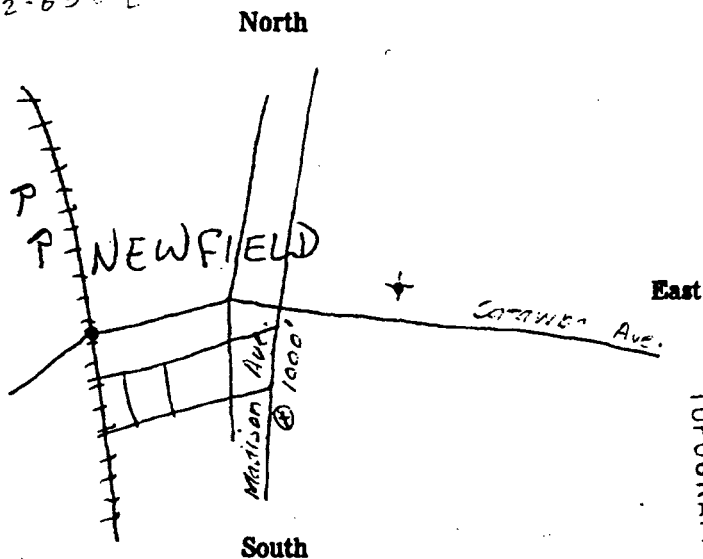
LOCATION OF WELL

Draw sketch showing distance and relations of well site to nearest public roads, streets, etc.

State Atlas Map No. 31



31-42-656



RECEIVED
FEB 23 10 41 AM '73
GEOLOGY
AND
TOPOGRAPHY

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number
31 58063

Atlas Sheet Coordinates
31 42 667

OWNER **LESHAY FARMS**

Address **328 CATAWBA AVE**

City **NEWFIELD**

State **NJ**

Zip Code

WELL LOCATION ADDRESS **CATAWBA AVE**

Owner's Well No **1**

County **GLOUCESTER**

Municipality **NEWFIELD BORO**

Lot No **7-01**

Block No **1001**

WELL USE **AGRIC/HORT-IRRIGATION**

DATE WELL STARTED **4 / 27 / 00**

DATE WELL COMPLETED **4 / 27 / 00**

WELL CONSTRUCTION

Total Depth Drilled **90** ft

Finished Well Depth **90** ft

Borehole Diameter

Top **20** in

Bottom **20** in

Well Casing Begins

1 ft above grade or
ft below grade

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no)
Single/Inner Casing	+1	60	10	PVC	Sch.40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No Used)	60	90	10	PVC	Sch.40
Blank Casings (No Used)					
Tail Piece					
Gravel Pack	58	90		grit	
Grout	0	58		Neat Cement Bentonite	1000 lbs

RECORD OF TEST

Test Date **4 / 27 / 00**

Static Water Level **18** ft below land surface

Water Level Measured Using **Air Tube**

Pumping Water Level **45** ft below land surface

Well Was Pumped Using **Turbine**

Well Yield **600** gpm

If Pump Tested Discharge Rate **400** gpm

Duration of Test **2** hours

Grouting Method **Tremie pipe**

Drilling Method **and rotary**

PERMANENT PUMPING EQUIPMENT

Installed by **Joe R. D'Agostino** Reg No **954**

Pump Type **Turbine**

Depth of Pump below land surface **55** ft

Capacity **600** gpm Horsepower **100**

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company **D'AGOSTINO WELL DRILLING**

Well Driller (Print) **Paul Belan**

Driller's Signature

Registration No **1027** Date **7 / 13 / 00**

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0'- 7' topsoil brown gravelly clay orange to yellow brown
7'-15' gravelly clay orange to yellow brown
15'-22' gravelly clay to gravel yellow brown
22'-30' gravel orange to yellow brown
30'-37' sand coarse to med. yellow to lt. brown
37'-45' sand coarse to med. yellow brown
45'-52' sand coarse some gravel yellow to lt. brown streaks clay
52'-60' gravel to coarse sand yellow to lt. brown streaks clay
60'-67' sand coarse to medium light brown
67'-75' sand coarse to med. light to yellow brown
75'-82' sand coarse some medium yellow brown
82'-90' sand coarse some med. yellow brown to orange brown

COPIES

White - DEP

Canary - Driller

Pink - Owner

Goldenrod - Health Dept

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number
31 63314

Atlas Sheet Coordinates
31 42 658

OWNER **LESHAY FARMS**

Address **328 CATAWBA AVE**

City **NEWFIELD**

State **NJ**

Zip Code

WELL LOCATION ADDRESS **CATAWBA AVENUE**

Owner's Well No **1**

County **GLOUCESTER** Municipality **NEWFIELD BORO**

Lot No **1.03**

Block No **1000**

WELL USE **AGRIC/HORT IRRIGATION**

DATE WELL STARTED **5 / 22 / 02**
DATE WELL COMPLETED **5 / 22 / 02**

WELL CONSTRUCTION

Total Depth Drilled **109** ft

Finished Well Depth **109** ft

Borehole Diameter

Top **32** in

Bottom **32** in

Well Casing Begins

1 ft above grade or
ft below grade

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no)
Single/Inner Casing	+1	49	16	PVC	Sch.40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	49	109	16	PVC	Sch.40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	47	109		grit	
Grout	0	47		Neat Cement Bentonite	5000 lbs

RECORD OF TEST

Test Date **5 / 22 / 02**

Static Water Level **18** ft below land surface

Water Level Measured Using **air tube**

Pumping Water Level **26** ft below land surface

Well Was Pumped Using **Turbine**

Well Yield **1200** gpm

If Pump Tested Discharge Rate **500** gpm

Duration of Test **2** hours

Grouting Method **Tremie pipe**

Drilling Method **Mid Rotary**

PERMANENT PUMPING EQUIPMENT DID NOT INSTALL

Installed by Reg No

Pump Type

Depth of Pump below land surface ft

Capacity gpm Horsepower

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company **D'AGOSTINO WELL DRILLING**

Well Driller (Print)

Joseph R. D'Agostino

Driller's Signature

Registration No **954** Date **7 / 10 / 02**

COPIES White - DEP Canary - Driller Pink - Owner
Goldenrod - Health Dept

GEOLOGIC LOG

Note depths where water was encountered in consolidated formations

0'-7' topsoil brown gravelly clay orange brown stones

7'-15' gravelly clay orange brown

15'-22' gravelly clay to gravel orange to yellow brown

22'-30' gravel to sand coarse yellow brown

30'-37' gravel yellow to orange brown streaks clay

37'-45' clay white to gravel and stones, yellow to lt. brown

45'-52' sand coarse to gravel yellow to lt. brown

52'-60' sand coarse some gravel yellow brown

60'-67' sand coarse light brown

67'-75' sand coarse to med. light brown

75'-82' sand medium some coarse light brown

82'-90' sand med. some coarse light brown

90'-97' sand med. some coarse light to yellow brown

97'-105' sand medium some coarse light to yellow brown

105'-109' sand med. to coarse some gravel light to rust brown

AS-BUILT WELL LOCATION

(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

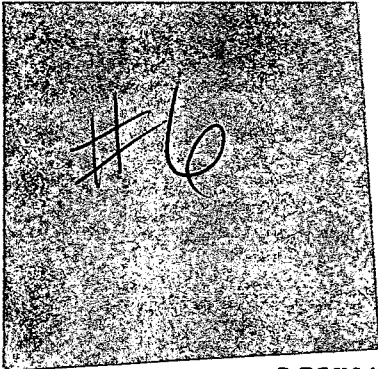
NORTHING

EASTING

OR

LATITUDE

LONGITUDE



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 3142673

PERMIT NO. 3122330

APPLICATION NO. Gloucester

COUNTY

WELL RECORD

1. OWNER LESHAY FARMS ADDRESS CATAWBA AVE.

Owner's Well No. _____ SURFACE ELEVATION _____ Feet

2. LOCATION Lot: 47 Block: 82 Municipality: Newfield Boro (Above mean sea level)

3. DATE COMPLETED 3/28/85 DRILLER D'Agostino Well Drilling

4. DIAMETER: Top 16 inches Bottom 16 inches TOTAL DEPTH 130 Feet

5. CASING: Type PVC Diameter 8 Inches Length 70 Feet

6. SCREEN: Type PVC Size of Opening .030 Diameter 8 Inches Length 60 Feet

Range in Depth { Top _____ Feet
Bottom _____ Feet

Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date Did not Test Yield _____ Gallons per minute

Static water level before pumping 22 Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT: DID NOT INSTALL

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Irrigation AMOUNT { Average _____ Gallons Daily
Maximum _____ Gallons Daily

11. QUALITY OF WATER Good Sample: Yes _____ No _____

Taste Good Odor _____ Color _____ Temp. _____ °F.

12. LOG _____ Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA D'Agostino Well Drilling, Inc.

14. DATA OBTAINED BY _____ Date _____

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

NAME LeShay FarmsLOCATION Catawba Ave.31-2233031.42.673

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL COLOR	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Gravel	Clay	dk. brown		0'	15'
Sand	Some white clay		Medium to coarse	15'	30'
Sand		lt. brown	Medium to coarse	30'	37'
Sand		tan	Medium to coarse	37'	45'
Clay	Fine Snad	gray		45'	52'
Clay		gray	sticky	52'	60'
Sand	Streaks of Clay	brown	fine to medium	60'	67'
Sand		lt. brown	medium to coarse	67'	90'
Sand		redish brown	coarse - Medium	90'	97'
Sand		redish brown	Medium to coarse	97'	105'
Sand		lt. brown	Medium to some fine	105'	120'
Sand	Streaks of white clay		fine to medium	120'	127'
Sand		lt. brown	medium to little fine	127'	130'
Sand					

Distance out from building Ft.Distance offset right Ft. Left Ft. from sides of buildingWell Depth 130 Casing diameter 8 Screen Length 60Static level 22

New Jersey Department of Environmental Protection
Bureau of Water Systems and Well Permitting
WELL RECORD

Well Permit Number
3100072467

Atlas Sheet Coordinates
3142667

OWNER JOSEPH & MARY LESHAY

Address 335 CATAWBA AVE

City Newfield

State New Jersey

Zip Code 08344

WELL LOCATION ADDRESS 328 CATAWBA AVE LESHAY FARMS

Owner's Well No. 7

County Gloucester

Municipality Newfield Boro

Lot No. L-4

Block No. 1000

WELL USE Agric/Hort/Aqua Irrigation

DATE WELL STARTED 6/7/07

DATE WELL COMPLETED 6/16/07

WELL CONSTRUCTION

Total Depth Drilled 1160 ft.

Finished Well Depth 138 ft.

Borehole Diameter:

Top 14" in.

Bottom 6" in.

Well Casing Begins:

1 ft. above grade or

ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	1 FT	78	10	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 3)	78	138	10	PVC	SCH 40 0.040
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	72	139		#2	
Grout	SUR	72		Neat Cement (Bentonite)	500 lbs

RECORD OF TEST

Test Date 7/12/07

Static Water Level 26 ft. below land surface

Water Level Measured Using AIR LINE

Pumping Water Level 53 ft. below land surface

Well Was Pumped Using TURBINE

Well Yield 600 gpm

1 Pump Tested Discharge Rate 420 gpm

Duration of Test 1 hours

PERMANENT PUMPING EQUIPMENT

Installed by Reg. No.

Pump Type

Depth of Pump below land surface ft.

Capacity gpm Horsepower

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company VANCE SKINNER CO

Well Driller (Print) W.V. SKINNER

Driller's Signature

Registration No. 848 Date 7/13/07

ORIGINAL: DEP

COPIES: DRILLED

Grouting Method TREATMENT

Drilling Method ROTARY

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-7 SAND (CL) INTERMEDIATE REDUCED OR FINE G
SAND CLAY
7-31 SAND (FM) DARK Y/L OR FINE TO COARSE
31-33 CLAY (CL) ORANGE
33-60 SAND (FM) FINE Y/L OR FINE TO
COARSE LIGHT MATRIX CLAY
60-72 SAND (FM) GRAYISH ORANGE
FINE TO COARSE
72-76 CLAY
76-115 SAND (SP) FINE GRAY OR MED GR
115-130 SAND LT BUN MED GR
130-143 AS-
(NAD 83 HORIZONTAL DATUM) MED GR
143-160 SAND (FM) FINE GRAY
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: EASTING:

OR

LATITUDE: ° LONGITUDE: °

DWR-133
6/04

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MAIL TO:
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

PERMIT TO DRILL WELL

VALID ONLY AFTER APPROVAL BY THE DEP

Permit No

3100072467

COORD #

3142667

Property Owner JOSEPH & MARY LESHAY

Driller VANCE SKINNER CO

Address 335 CATAWBA AVE

Address PO BOX 2

NEWFIELD, NJ 08344

VINELAND, NJ 08362-0002

Name of Facility LESHAY FARMS

Address 328 CATAWBA AVE

NEWFIELD NJ 08344

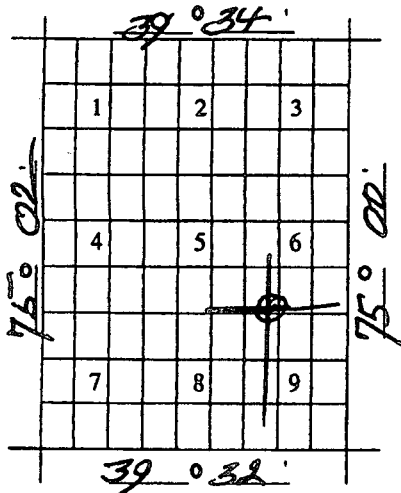
Diameter of Well	<u>10</u>	Inches	Proposed Depth of Well	<u>130</u>	Feet
Proposed Capacity of Pump	<u>600</u>	GPM	Method of Drilling (Cable tool, Rotary etc)	<u>Rotary</u>	
Use of Well (See Reverse)	<u>IRRIGATION</u>				
Drinking Water Supply?	yes (see # on reverse) <u>no</u>				

LOCATION OF WELL

Lot # L-4 Block # 1000 Municipality NEWFIELD BORO County GLoucester

State Atlas Map No. 31

Draw sketch showing distance and location of well site to nearest public roads, streets, components of the nearest sewage disposal system, etc



West

North

CATAWBA AVE

South

East

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING	_____	EASTING	_____
OR			
LATITUDE	_____	LONGITUDE	_____

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS PERTAINING TO THIS PERMIT. APPROVAL OF THIS PERMIT IS MADE SUBJECT TO ACCEPTANCE OF AND COMPLIANCE WITH THE FOLLOWING ADDITIONAL CONDITIONS

- ☐ PUBLIC COMMUNITY Water Supply Wells shall obtain construction and operation permits from the Bureau of Safe Drinking Water in accordance with N.J.A.C. 7:10-11 et seq
- ☐ INDUSTRIAL SUPPLY A physical connection control permit shall be obtained pursuant to the provisions of N.J.A.C. 7:10-10.1 et seq
- ☐ IRRIGATION SUPPLY - A physical connection control permit may be required pursuant to the provisions of N.J.A.C. 7:10-10.1 et seq
- ☐ REPLACEMENT WELL - Existing well must be sealed by a New Jersey licensed well driller of the proper class upon abandonment
- ☐ PINELANDS Well must be drilled and cased to a minimum depth of 100 unless the provisions of N.J.A.C. 7:50-6.84 (a)4 v are met
- ☐ MINIMUM distance requirements as per N.J.A.C. 7:9D-2.7 have not been met - see attached condition(s)
- ☐ The well shall be equipped with a totalizing flow meter per N.J.A.C. 7:19-2 et seq
- ☐

WELL PERMIT APPROVED
NJ DEP

JUN 26 2006

BUREAU OF WATER SYSTEMS
& WELL PERMITTING

In compliance with N.J.S.A. 98-4A-14, application is made for a permit to drill a well as described above

Date 6/7/06

Signature of Driller [Signature]

Registration No 843

Signature of Property Owner [Signature]

COPIES Water Allocation White Health Dept - Yellow Owner - Blue Driller - White



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JON S. CORZINE
Governor

*DIVISION OF WATER SUPPLY
WATER SUPPLY PERMITTING
BUREAU OF WATER ALLOCATION
P.O. BOX 426
TRENTON, NEW JERSEY 08625-0426
TEL.# 609-292-2957
FAX.# 609-633-1495*

LISA P. JACKSON
Commissioner

April 2, 2008

Mr. Samuel Leshay
Leshay Farms
328 Catawba Avenue
Newfield, New Jersey 08344

Dear Mr. Leshay:

Re: Modification of Agricultural Certification No. GL0182
Activity No. AGC040002

The Bureau of Water Allocation (Bureau) has completed its review of the subject application. The Bureau is recommending denial of the modification to add Well Nos. 5 and 6, Permit Nos. 3100063314 and 3100006890, pursuant to N.J.A.C. 7:20A-2.5(j)3. In addition, the approval to operate Well No. 4, Permit No. 3100058063, is proposed to be revoked from your Certification. Diversion from Well Nos. 4, 5 and 6 poses a concern due to the potential for these sources to intercept contaminated ground water emanating from the nearby Shieldalloy Metallurgical Corporation (SMC), a known contaminated site. The use of these wells also potentially interferes with the ongoing remediation at SMC. Therefore, as Well Nos. 5 and 6 are not approved sources, any further use of these wells should cease immediately.

Enclosed are copies of the following documents providing the basis for the recommended decision:

- (1) The Draft Certification modified to include only Well Nos. 1 and 3, Permit Nos. 5100000392 and 3100022330 respectively;
- (2) Draft Report explaining and justifying the denial of the requested addition of diversion sources, well Nos. 5 and 6, and revocation of well No. 4; and
- (3) February 15, 2008 Memorandum from the Department's Site Remediation Program (SRP) regarding the SMC site and Leshay Farms.

These documents are being provided to you for your review and comments prior to the Department finalizing its decision. As per N.J.A.C. 7:20A-2.5(k), if you are not in agreement with these findings you may request that the Department convene an advisory panel meeting prior to the decision being issued. If this informal meeting does not result in an agreement among the involved parties, upon your request, the Department shall schedule a public hearing.

Please provide in writing any comments you may have on the Draft Certification and Report, and your decision whether you would like to request a meeting of the advisory panel. If we do not receive a response by May 2, 2008, the Department will proceed with issuance of the denial.

There are two other issues that need to be addressed:

1. Well No. 4 was inadvertently omitted from your water use report form for the year 2004. A revised annual diversion report form (which includes Well No. 4) is enclosed for your revision and submittal. This revised form should be submitted by May 2, 2008.
2. If you intend to use Well No. 7 (Permit No. 3100072467), which was drilled in 2007, you must initiate a modification application to add this well. At this time, Well No. 7 is not an approved diversion source and no diversion from it shall occur until a modified certification is obtained authorizing its use. This well is less likely to interfere with the remediation of SMC as it is farther away from the site. An application form is enclosed for your use. Please contact your Agricultural Agent, Jerome Frecon for assistance in completing the form.

If you have any questions regarding this matter, please contact Jay Patel of my staff at (609) 292-2957.

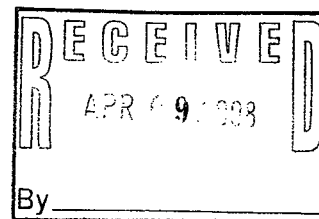
Sincerely,

Diane E. Zalaskus

Diane E. Zalaskus, P.E.
Bureau Chief
Bureau of Water Allocation
Division of Water Supply

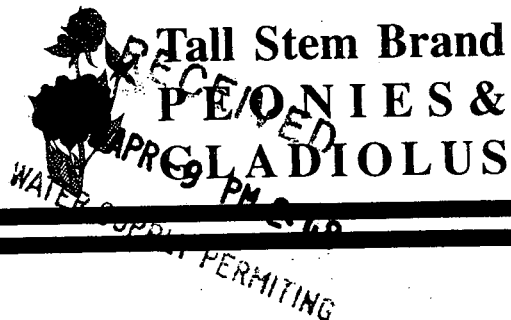
Enclosures

c: Jerome I. Frecon, Gloucester County
Agricultural Agent (w/ enclosures)
Wesley Kline, Cumberland County
Agricultural Agent (w/ enclosures)
Ed Post, Chief, Southern Bureau of Water
Compliance & Enforcement
Monique Purcell, Director, Rural Resources,
Department of Agriculture (w/ enclosures)
Stephen Maybury, Chief, BCM
~~David R. Smith, BCM~~
Jay Patel, BWA
George Nicholas, SRP
David R. Smith, SMC



LESHAY FARMS

328 Catawba Ave. • Newfield, NJ 08344
Phone (856) 697-1119 • Fax (856) 697-3885



Apr. 7, 2008

Dear Mr. Patel,

In response to your letter dated Apr. 2, 2008.
Please send me acopy of the following items.
#1 The TRC model ing report concerning wells #4,5, and6
#2 A map of the Shieldalloy Corp. monitoring wells, locations.
#3 A map showing the flow direction of the aquifer that
wells # 4,5 & 6 are in.
#4 A map showing the current size of the plume at SMC.

Concerning well #7. It was intalled late this past summer because of the pending sale of a 27 acre parcel of rented land. (see attached sheet) We own a 6 acre field on the eastern side of this 27 acres, where we installed well # 7, and a 4 acre field on the western side, where well #5 and 6 are located. Both of these blocks are planted in a long term perennial flower crop of high value. They need water at critical times in their growth cycle to be productive. When we asked the developer of the 27acres for a right of way to bring water to our eastern block werwere denied. Therefore well #7 was installed knowing that when the sale was final we no longer would be able to pump water across his land from well #5. The 4 acre western block where wells # 5 and 6 are located has been planted with new varieties of high value perennial plants over the last 3 years totaling more than \$65,000 in costs. Without the water from well #5 we have no way to irrigate these plants and could lose them. Since wells #5 &6 showed no contaminants in 2004 could well #5 continue to operate if we agreed to turn well #6 into a monitor well ?

Concerning well #4, this is on a 20 acre farm. There is no other way to irrigate our crops on this trac. Could this well be tested regularly and continue to operate? There is a monitor well in cumberland county approximately 1500 ft south west of well #4.

LESHAY FARMS

328 Catawba Ave. • Newfield, NJ 08344
Phone (856) 697-1119 • Fax (856) 697-3885



Tall Stem Brand
PEONIES &
GLADIOLUS

RECEIVED
2008 APR 19 PM 3:19
WATER SUPPLY PERMITTING

We are the third generation of farmers at Leshay Farms, and have been farming in the area since 1930. Long before the development of the DEP, we always used the best and safest practices for the land and environment, that we were caring for. Hopefully working together we can continue, as without water, we can't.

Sincerely,

Samuel P. Leshay, Owner
Leshay Farms

LESHAY FARMS

328 Catawba Ave. • Newfield, NJ 08344
Phone (856) 697-1119 • Fax (856) 697-3885



Tall Stem Brand
PEONIES &
GLADIOLUS

WATER SUPPLY PERMITTING NJ #6
1 well #5

6A
Eastern
Block

27A Parcel
Sale pending

4A
Western Block

Well #7
—

Madison Ave

Catawba Ave



State of New Jersey

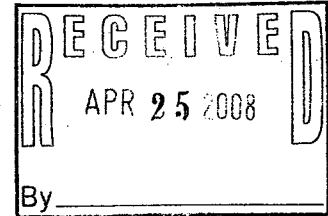
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WATER SUPPLY
WATER SUPPLY PERMITTING
BUREAU OF WATER ALLOCATION
P.O. BOX 426
TRENTON, NEW JERSEY 08625-0426
TEL.# 609-292-2957
FAX.# 609-633-1495

JON S. CORZINE
Governor

LISA P. JACKSON
Commissioner

April 17, 2008



Mr. Samuel Leshay
Leshay Farms
328 Catawba Avenue
Newfield, New Jersey 08344

Dear Mr. Leshay:

Re: Modification of Agricultural Certification No. GL0182
Activity No. AGC040002
Your letter dated April 7, 2008

Enclosed please find items 1 to 4 that you requested in your letter dated April 7, 2008. In your letter you indicated desire to continue use of Well Nos. 4, 5, and 6. However, as indicated in the Bureau's April 2, 2008 letter, diversion from them poses a concern due to the potential for these sources to intercept contaminated water emanating from the nearby Shieldalloy Metallurgical Corporation (SMC), a know contaminated site. The use of these wells also potentially interferes with the on going remediation at SMC. Therefore, as Well Nos. 5 and 6 are not approved sources, any further use of these wells should cease immediately. As stated in Condition No. 2 of permit to drill well, it only allows to drill a well and not the diversion of water from it.

Furthermore, as indicated in our referenced letter, if you are not in agreement with the documents that were sent to you and our draft decision, we need your written response by May 2, 2008 regarding any comments you have on the Draft Certification and Report, and your decision whether you would like to request a meeting of the Advisory Panel prior to our final decision being issued. Also, we need revised 2004 water use report that includes diversion from well No. 4. If no response is received from you by the specified date, the Department will proceed with issuance of denial to add well Nos. 5 and 6 into your diversion sources and revocation of well No. 4 from your certification.

If you have any questions regarding this matter, please contact my section chief Jennifer Myers at (609) 292-2957.

Sincerely,



Jay Patel
Bureau of Water Allocation

Enclosures

- c: Jerome I. Frecon, Gloucester County
Agricultural Agent (w/ enclosures)
Wesley Kline, Cumberland County
Agricultural Agent (w/ enclosures)
Ed Post, Chief, Southern Bureau of Water
Compliance & Enforcement
Monique Purcell, Director, Rural Resources,
Department of Agriculture (w/ enclosures)
Stephen Maybury, Chief, BCM
~~Donna L. Gaffigan, B.C.M.~~
Jay Patel, BWA
George Nicholas, SRP
David R. Smith, SMC

LESHAY FARMS

328 Catawba Ave. • Newfield, NJ 08344
Phone (856) 697-1119 • Fax (856) 697-3885



Tall Stem Brand
PEONIES &
GLADIOLUS

June 25 2008

Good Morning Tay,

Please find following on 2 pages
the information needed to complete
the new modeling.

Sincerely,
Sam Leshay

LESHAY FARMS

328 Catawba Ave. • Newfield, NJ 08344
Phone (856) 697-1119 • Fax (856) 697-3885



Tall Stem Brand
PEONIES &
GLADIOLUS

June 24, 2008

To: Mr. Jay Patel BWA

Please find following the correct data to use in the modeling for our wells #4, 5, and 7. The watering season we use for our crops is June, July and August. In extreme drought conditions with maximum irrigation the frequency of watering is once a week for each well with a 2.5 hour time. With the crops being grown and the number of sprinkler heads for each field the maximum pump capacity at no time is used, due to the limited size of each field. The size of each pump was necessary when installed to give the correct pressure needed for the sprinkler heads, according to the well drillers and installers. In an ample rainfall scenario the pumps would not be in use and the pumping rate would be 0, for each week precipitation falls. Also since each well is 100 feet deep or more only a small portion of the water used is being taken from the shallow layers since the screens are mostly at 60-100 ft depth.

LESHAY FARMS

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Phone (856) 697-1119 • Fax (856) 697-3885



Tall Stem Brand
PEONIES &
GLADIOLUS

Data for each well is listed below.

Well #	pump capacity	Actual max draw
4	500gpm	252gpm
5	1000gpm	266gpm
7	600gpm	420gpm

One question that was brought up by the Mayor of Newfield, Joseph Curcio, is that legally there may be a conflict of interest in that TRC company is doing the modeling, and in charge of the cleanup at SMC site. He suggested using an independent company for the modeling.